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L6: Entry 17 of 17

File: USPT

Aug 5, 2003

DOCUMENT-IDENTIFIER: US 6602510 B1

TITLE: HLA class I A2 tumor associated antigen peptides and vaccine compositions

Brief Summary Text (25):

An alternative embodiment comprises, a composition comprising one or more peptides, and further comprising at least two epitopes selected from Table 6, wherein each of said one or more peptides comprise less than 250, 100, 75 or 50 amino acids that have 100% identity with a native peptide sequence. A native peptide sequence can be CEA, HER2/neu, MAGE2, MAGE3, or p53. The composition comprises epitopes from at least two antigens selected from the group consisting of antigens: CEA, HER2/neu, MAGE2, MAGE3, and p53. The composition can comprise at least two, three, four, five, six, seven, eight, nine, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 or more epitopes selected from Table 6. A multiepitope peptide can be a heteropolymer or a homopolymer. The composition can comprise at least one epitope selected from Table 6 which binds to a member of an HLA-A2 supertype at an IC.sub.50 equal to or less than 500 nM, at least one epitope selected from Table 6 which binds to at least two members of the HLA-A2 supertype at an IC.sub.50 equal to or less than 500 nM, at least one epitope selected from Table 6 which binds to at least three members of the HLA-A2 supertype at an IC.sub.50 at equal to or less than 500 nM, at least one epitope selected from Table 6 which binds to a member of the HLA-A2 supertype at an IC.sub.50 at equal to or less than 200 nM, at least one epitope selected from Table 6 which binds to a member of the HLA-A2 supertype at an IC.sub.50 at equal to or less than 50 nM, or, at least one epitope selected from Table 6 which exhibits tumor cell recognition when used in a CTL assay to elicit a CTL response. The composition can comprise a pharmaceutical excipient, such as an adjuvant.

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1: J Natl Cancer Inst. 1979 Aug;63(2):367-73.

Links

Oncofetal antigen: a tumor-associated fetal antigen immunogenic in man.

Irie RF, Giuliano AE, Morton DL.

Oncofetal antigen (OFA) has been defined with the use of human natural antibodies as a membrane antigen of human cancer cells that cross-reacts with human fetal brain tissues. The immunogen that elicits the antibody is unknown. The present study was undertaken to examine the immunogenicity of the OFA found on tumor cells. Postoperative melanoma patients were immunized with OFA-positive melanoma cells. Anti-OFA reactivities in the immunized sera were titrated by the immune adherence assay with the use of a known OFA-positive cultured melanoma cell line, M14, as target cell. Alloantibodies were excluded by absorption with lymphoblastoid cells autologous to M14. Anti-OFA antibody then was identified by absorption with fetal brain. In 6 months of immunization, 19 of 23 patients produced increased anti-OFA antibodies. The peak titers ranged from 1:16 to 1:2,048. Sera from 18 patients who were not immunized also were tested for 6 months postoperatively, and none had significant increases in antibody titers. The increase of anti-OFA antibody titer in response to the immunization with OFA-positive tumor cells suggests the immunogenic capability of tumor-related OFA in man.

PMID: 88539 [PubMed - indexed for MEDLINE]

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A serologic study of cultured breast cancer cell lines: lack of antibody response to tumour specific membrane antigens in patients. [Cancer Exp Immunol. 1980]

Humoral response of melanoma patients to two different tumor-associated antigens. [J Surg Oncol. 1983]

A membrane antigen common to human cancer and fetal brain tissue. [Cancer Res. 1976]

Isolation and immunochemical characterization of antibodies from the sera of cancer patients which are reactive against human melanoma cell membranes by affinity chromatography. [Cancer Res. 1979]

Ganglioside GM2 as a human tumor antigen (OFA-1). [Proc Natl Acad Sci U S A. 1983]

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<input type="checkbox"/>	L7	oncofetal same multiepitope	0
<input type="checkbox"/>	L6	multiepitope same ctl	17
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#18	Related Articles for PubMed (Select 8752934)	09:35:20	144
#26	Search multiple epitopes and oncofetal antigen	09:35:09	6
#25	Search pool of epitopes and oncofetal antigen	09:34:58	0
#24	Search polytope and oncofetal antigen	09:34:45	0
#23	Search polyepitope and oncofetal antigen	09:34:37	0
#22	Search polyepitope and oncofetal	09:34:32	0
#15	Search polytope AND ctl	09:23:45	11
#14	Search tumor rejection antigens and multiple	09:22:02	174
#13	Search tumor rejection antigen and plurality	09:21:46	0
#11	Search POLYTOPE AND CTL	09:19:20	11
#10	Related Articles for PubMed (Select 15623647)	09:07:20	329
#3	Related Articles for PubMed (Select 12869512)	09:06:55	376
#8	Search oncofetal antigen AND CTL	09:05:24	6
#1	Search oncofetal antigen AND epitope	09:04:09	161

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#18	Related Articles for PubMed (Select 8752934)	09:35:20	<u>144</u>
#26	Search multiple epitopes and oncofetal antigen	09:35:09	<u>6</u>
#25	Search pool of epitopes and oncofetal antigen	09:34:58	<u>0</u>
#24	Search polytope and oncofetal antigen	09:34:45	<u>0</u>
#23	Search polyepitope and oncofetal antigen	09:34:37	<u>0</u>
#22	Search polyepitope and oncofetal	09:34:32	<u>0</u>
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#13	Search tumor rejection antigen and plurality	09:21:46	<u>0</u>
#11	Search POLYTOPE AND CTL	09:19:20	<u>11</u>
#10	Related Articles for PubMed (Select 15623647)	09:07:20	<u>329</u>
#3	Related Articles for PubMed (Select 12869512)	09:06:55	<u>376</u>
#8	Search oncofetal antigen AND CTL	09:05:24	<u>6</u>
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<input type="checkbox"/>	L6	"oncofetal antigen" or "OFA"	33697
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